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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,968	12/22/2005	Hideo Hosono	053329	1632	
7590 (2211/2008) WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT A VENUE, NW SUITE 700 WASHINGTON, DC 20036			EXAMINER		
			KUNEMUNI	KUNEMUND, ROBERT M	
			ART UNIT	PAPER NUMBER	
			1792	•	
			MAIL DATE	DELIVERY MODE	
			02/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/561,968	HOSONO ET AL.	
Examiner	Art Unit	
Robert M. Kunemund	1792	

	Robert M. Kunemund	1792			
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the c	correspondence ad	dress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX 6) MONTH's from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period we failure to previously the statutory period we failure to reply within the set or extended period for reply with pitch, Any reply received by the Office later than three months after the mailing-earned patent term adjustment. See 37 CFR 1.70(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin Il apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	e.				
2a) This action is FINAL. 2b) ☐ This :	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex	k parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-16 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) 7-12 is/are allowed.					
6)⊠ Claim(s) <u>1-6 and 13-16</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement				
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Application Papers					
9)☐ The specification is objected to by the Examiner					
10)☐ The drawing(s) filed on is/are: a)☐ acce	pted or b) objected to by the I	Examiner.			
Applicant may not request that any objection to the d	rawing(s) be held in abeyance. See	9 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PT	O-152.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).			
1. ☐ Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents		on No			
Copies of the certified copies of the priori			Stage		
application from the International Bureau	•		- 0		
* See the attached detailed Office action for a list of		ed.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/05)

Paper No(s)/Mail Date 12/05.

4)	Interview	Summar	y (PTO-41

Paper No(s)/Mail Date. 5) Notice of Informal Patent Application 6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention,

Claims 13 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are indefinite for failing to particularly point out and distinctly claim the subject matter. The claims recite a method for clathrating a compound. However, the claims do not specific set forth any process limitations. The process or method is not set forth and not clear as to how one of ordinary skill in the art is to clathrate the compound recited.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim Rejections - 35 USC § 102

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3, 4, 6, 15 and 16 are rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hosono et al (2002-003218 and 2003238149).

The Hosono et al references teach a mixed crystal compound, note entire references. The mixed crystal is 12CaO:7Al2O3. The compound is treated to create an active oxygen with a content of 10¹⁸ /cm3 or more, note translated abs. The references do not set forth the conductivity and ratio of oxygen in cages to free. However, the properties would inherently be similar since the treatment is similar in nature. Further, it would have been obvious to one of ordinary skill in the art to modify the Hosono et al references to create the claimed properties in order to increase oxidation at lower temperatures increasing the use of the compound as a catalyst or antibacterial material.

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Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as obvious over Hosono et al (2002-003218 and 2003238149) both in view of Yamaguchi et al (comm.. of the American Ceramic Society).

The Hosono et al references are relied on for the same reasons as stated, supra, and differs form the instant claims in the specific compound. However, the Yamaguchi et al reference teaches 12SrO:7Al2O3 and that it is treated by the same means as 12CaO:7Al2O3, note page c-36. It would have been obvious to one of ordinary skill in the art to modify both the Hosono et al references by the teachings of the Yamaguchi et al reference to use 12SrO:7Al2O3 in order to increase the use of the compound.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert M Kunemund Primary Examiner Art Unit 1792

RMK

/Robert M Kunemund/ Primary Examiner, Art Unit 1792